Supplementary Material

Quantitative Detection of Procalcitonin by Electrochemical Immunosensor Based on MoO$_3$/Au@rGO Nanocomposites

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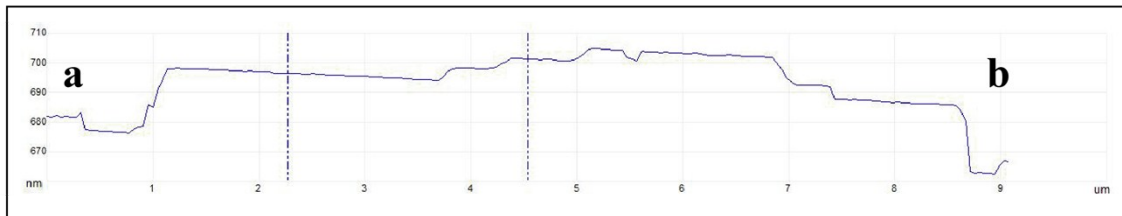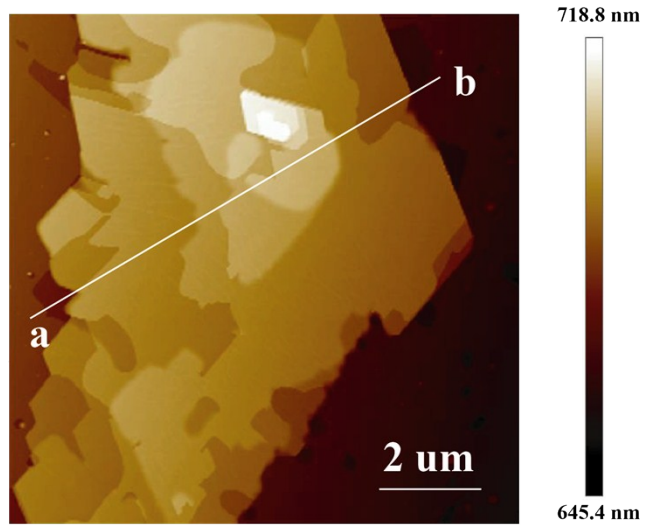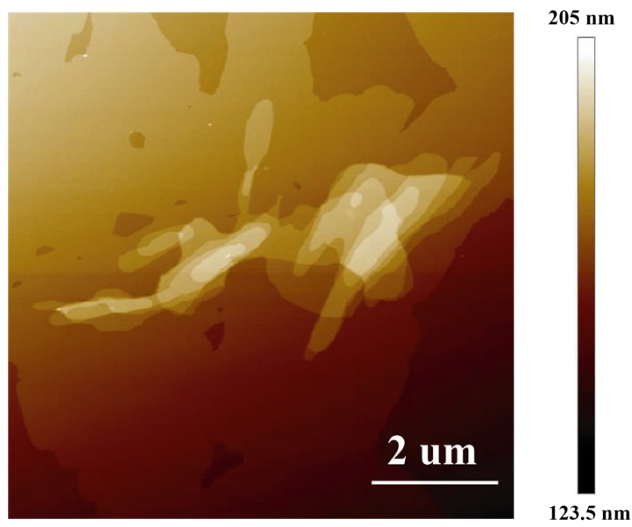
Figure S1. AFM image of rGO.

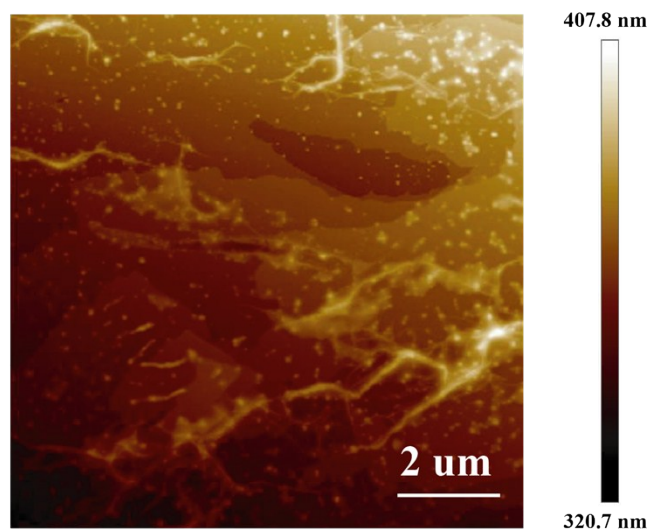**Figure S2**. AFM image of MoO$_3$@rGO.

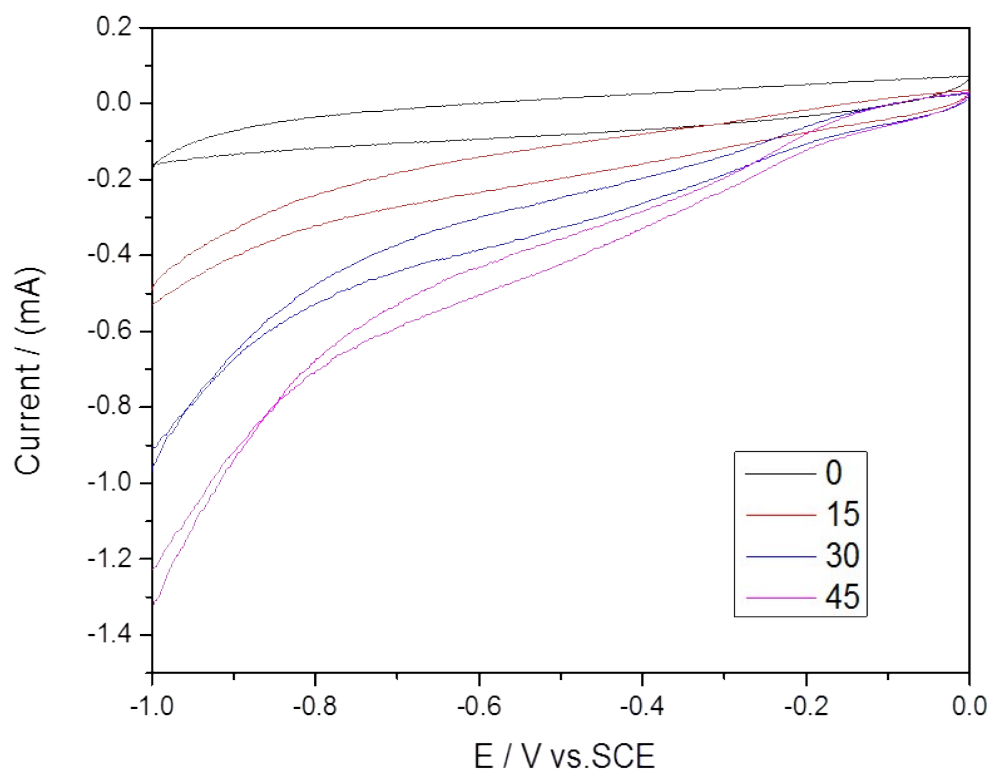**Figure S3**. AFM image of MoO$_3$/Au@rGO.

Figure S4. CV curves of MoO$_3$/Au@rGO nanocomposites in PBS buffer solution containing different volumes (uL) of H$_2$O$_2$.

Table S1. Impedance parameters derived using the equivalent circuit model for the electrodes.

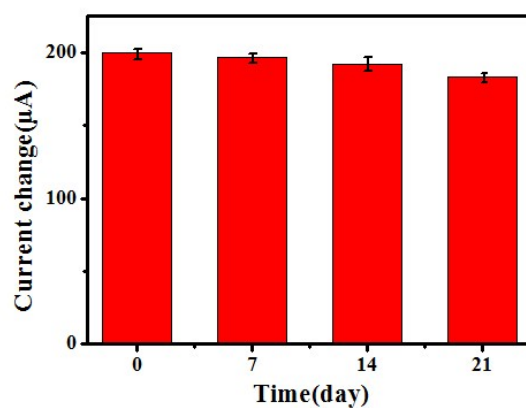| Electrodes	$R_s(\Omega)$	$C_{dl}(F)$	$R_{et}(\Omega)$
GCE	81.70	0.73086	201.1
Au/GCE	75.77	0.75341	203.0
Ab_1-Au/GCE	72.96	0.70545	209.1
BSA/Ab_1-Au/GCE	86.89	0.89700	624.6
PCT/BSA/Ab_1-Au/GCE	71.92	0.88510	960.6
Ab_2-PCT/BSA/Ab_1-Au/GCE	68.45	0.88376	2323
MoO_3/Au@rGO/Ab_2-PCT/BSA/Ab_1-Au/GCE	71.48	0.90074	3791

Figure S5. Current response of the immunosensor after different days.